



Department of Natural Resource Management
ASPEE College of Horticulture
Navsari Agricultural University
Navsari – 396450



ACTIVITIES AND ACHIEVEMENTS

ACADEMIC ACTIVITIES

List of Courses offered by the Department for Under Graduate Programme (As per 6th Dean's Committee)

B. Sc. (Hons.) Horticulture				
SN	Sem.	Course No.	Title of Course	Credit hrs
1	1 st	MDC - I	Farming Based Livelihood Systems	3(2+1)
2	1 st	NRMH 1.1	Sprinkler and Micro Irrigation Systems	2(1+1)
3	2 nd	NRMH 2.2	Introduction to Major Field Crops	3(2+1)
4	2 nd	VAC – I	Environmental Studies and Disaster Management	3(2+1)
5	3 rd	NRMH 3.3	Fundamentals of Soil Science	3(2+1)
6	4 th	NRMH 4.4	Farm Power and Machinery for Horticulture	3(2+1)
7	4 th	NRMH 4.5	Introductory Agro meteorology and Climate Change	2(1+1)
8	5 th	NRMH 5.7	Soil Fertility and Nutrient Management	3(2+1)
9	6 th	NRMH 6.8	Principles and Practices of Natural Farming	2(1+1)
Sub Total (A)				24 (15+9)

List of Courses offered by the Department for Post Graduate Programme (As per BSMA Committee)

M. Sc. Horticulture				
SN	Sem.	Course No.	Title of Course	Credit hrs
1	Odd	PGS 504	Basic Concept in Laboratory technique	1(0+1)
2	Even	VSC 511	Organic vegetable production (P)	2(1+1)
3	Odd	Agron 513 (Agri)	Principles and Practices of Organic Agriculture	3(2+1)
4	Even	Agron 609 (Agri)	Stress Crop Production	3(2+1)
Total				9 (5+4)

RESEARCH ACTIVITIES

Focus Areas

The growth of organic agriculture in India as well as in the state is increasing. The area under certified organic farming in India during 2003-04 was 42,000 ha and it was increase almost 20 fold during the last 5 years. By March 2010 India has brought more than 4.48 million ha area under organic certification process. This is mainly due to (1) the continuous use of chemical fertilizers with unscientific soil and water management led to soil degradation and (2) Increase awareness among the people about health. Number of farmers has started organic farming on their own way as they have no technical know how. Further, the efforts are scanty and patchy. Looking to this, Navsari Agricultural University has started the work on this aspect and converted 12 ha land in to organic farming and plan scheme was also sanctioned and initiated the experiment. The experiment was started using banana, papaya, sugarcane, elephant foot yam, greater yam, onion, garlic and turmeric. The preliminary result was good. For enhancement of organic farming required to work on development of organic package of practices, production of quality organic manure and organic pest control module. This requires to strength the existing scheme so as to achieve following objectives.

- To generate basic information about potential of organic farming, inorganic farming and combination of both from agronomy, soil science, soil and plant health, crop quality and nutrition and biochemistry view points.
- To asses intensity of pests and diseases in relation to different treatments and thereby to study pollution problem.
- To develop simple index based on quality difference and economics for assessing superiority of treatments and thereby make recommendation for farmers.
- Modelling and documentation of results.
- Develop organic package of practices for different crops.
- Evaluate quality of produce.
- Assess soil health.
- Training for creating awareness among farmers about organic farming.
- Demonstrate organic package of practice on farmers' fields.
- Helping farmers for organic certification and develop marketing linkages.
- Human resource development.

Research Schemes in Operation

SN	Title of Project	Budget Head	PI & Co-PI
A	Plan Schemes		
1	Strengthening of organic farming cell	2012-13 & BH- 12022	PI: Dr. A.R. Kaswala Co-PI: Dr.P.K. Dubey
2	Centre of excellence for organic and natural farming	2023 BH 12088	PI: Dr. A.R. Kaswala Co-PI: Dr.P.K. Dubey

: Research Recommendations:

Research Recommendations for the farming community: 23

Achievements

Awards

SN	Name of Award	Awardee	Year	Awarding institute/ Agency
1	Best Oral Paper Presentation	Dr. P.K. Dubey	2024	3 rd Progressive Horticulture Conclave (PHC) 2024 on Horticultural Technologies for a self-Reliant India organized by Progressive Horticulture-Society of Horticulture Research & Development (SHRD) Uttarakhand, India in collaboration with and at ASPEE College of Horticulture, Navsari Agricultural University, Navsari during 18-20 January, 2024
2	Best Poster Paper Presentation	Dr. A.R. Kaswala	2022	31th National Conference on "Innovative Resource Management Approaches for Coastal and Inland Ecosystems to Sustain Productivity and Climate Resilience "held at Navsari Agricultural University , Navsari, Gujarat on October 13-15, 2022.
3	Best Oral Paper Presentation	Dr. P.K. Dubey	2022	31th National Conference on "Innovative Resource Management Approaches for Coastal and Inland Ecosystems to Sustain Productivity and Climate Resilience "held at Navsari Agricultural University , Navsari, Gujarat on October 13-15, 2022.
4	Best Oral Paper Presentation	Dr. A.R. Kaswala	2021	National Seminar on “Advances in Sustainable Management Of Natural Resources For Food and Nutritional Security” held at Navsari Agricultural University, Navsari, Gujarat on August 26-27, 2021.
5	Best Oral Paper Presentation	Dr. P.K. Dubey	2021	National Seminar on “Advances in Sustainable Management Of Natural Resources For Food and Nutritional Security” held at Navsari Agricultural University, Navsari, Gujarat on August 26-27, 2021.
6	Young Scientist Award	Dr. P.K. Dubey	2018	International Conference on Food and Agriculture” ICFA-2018, 29-31 March, 2018 at Dhanbad, Jharkhand
7	Best Oral Paper Presentation	Dr. P.K. Dubey	2018	International Conference on Food and Agriculture” ICFA-2018, 29-31 March, 2018 at Dhanbad, Jharkhand
8	Best Oral Paper Presentation	Dr. P.K. Dubey	2018	National Seminar on “Technologies and Sustainability of Protected Cultivation for Hi-Valued Vegetable Crops” held at ACHF, Navsari Agricultural University, Navsari, Gujarat
9	Young Scientist Award	Dr. P.K. Dubey	2017	National Conference on Doubling Farmers Income for Sustainable and Harmonious Agriculture ’ DISHA-2017, 9-10th September, 2017 at Sri Venkateshwara University, Tirupathi, Andhra Pradesh
10	Best Oral Paper Presentation	Dr.Smita Gupta	2021	3 rd International Conference on "Food,Agriculture and Innovations(Hybrid mode) "held at Ranchi Jharkhand on 24 th -26 th December, 2021.
11	Best Research Scholar Award	Dr.Smita Gupta	2017	Advances in agricultural and biodiversity conservation for sustainable development at C.C.S,UniversityMeerut,UP,India..
12	Young Scientist Award	Dr.Smita Gupta	2016	Genesis urban and rural development society,Hyderabad

EXTENSION ACIVITIES

Khedut Shibir/Training/Exposure visit/Agro Advisory service organized by department

S.N.	Date	Place	Name of activity	Name of Faculty	Number of farmers Participate
1	12/05/20 25 to 16/05/20 25	ACH, NAU, Navsari	Under the National Mission on Natural Farming (NMNF) 5 days residential training of Krishi Sakhis/ Community Resource Persons (CRPs) was organized	NRM Dept., ACH, NAU, Navsari	Clusters of Jalalpore Taluka



- ❖ Participation of faculty in *Krusha Mahotsava* and *Krusha Mela* Programme.
- ❖ Lectures delivered in training programme organized by KVKs/ ATMA/Department on the Natural farming/ Organic farming for the farmers, in-service employee, class I & II officers etc.
- ❖ Lectures delivered in training programme organized by ATIC, DEE, NAU, Navsari to the Agro-input dealers.
- ❖ On-farm/ Off-farm and through mobile Technical guidance on Natural farming/ Organic farming provided to the organic growers.
- ❖ Dissemination of technology through field demonstration.

Infrastructure Available

Department

- UG and PG Laboratories:
- Instrument room, Store room, sample room and office.
- Wi-Fi facility.



Farm

- Farm Area: 10 ha
- Office, Museum and godawn
- Borewell: 01
- Farm implements, Vermicompost unit, NADEP compost unit, anaerobic compost unit, Net house.

